

# Modbus ASCII/RTU to DF1 Converter

## SGW1-MB-DF1

SGW1-MB-DF1 shortens the gap between your preexistent Modbus ASCII/RTU application and any device with DF1 (Allen Bradley®) connectivity.

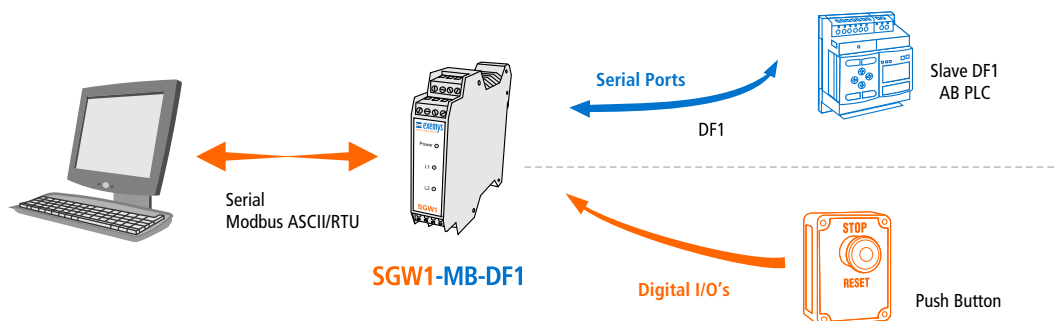
SGW1-MB-DF1 is a Modbus ASCII/RTU to DF1 Serial Gateway. It is designed to gain access to any PLC with DF1 connectivity through any Modbus ASCII/RTU device or application. Protocol conversion is based on easy-to-fill translation tables.

Map your DF1 Input, Output, Integer, Bit and Status Registers into Discrete Inputs, Coils, Input Registers and Holding Registers in Modbus address.



### FEATURES

- DIN Rail mounting, temperature-resistant Industrial Case.
- 2 RS232 ports (1 Modbus + 1 DF1).
- Modbus ASCII and RTU protocols.
- DF1 Full Duplex protocol.
- Baud rates up to 115200 bps.
- Modbus Slave embedded, for built-in digital Inputs/Outputs (4+4).
- Easy to install and set-up through a serial console.
- Wide range power supply (10-30V DC).

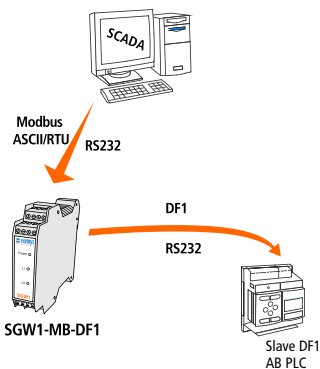


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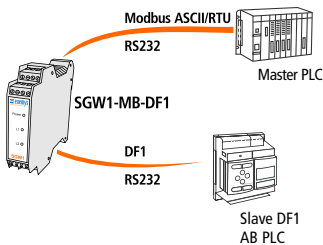


## SPECIFICATIONS

### 1. Direct connection of one device using master Modbus ASCII/RTU.



### 2. Master-Slave Connection



- **Communication protocols:** Modbus ASCII/RTU, DF1 Full Duplex.
- **Communication ports:** 2 RS232 with no flow control, Industrial pluggable terminal blocks.
- **Devices supported:** Any device with DF1 Slave connectivity.
- **Inputs/Outputs:**  
Inputs: NPN Sinking, 3.5 to 28 Volts DC, 1 to 11mA max.  
Outputs: NPN Sourcing, high drive, open collector, 3 to 45 Volts DC, 130 mA max. per channel. Industrial pluggable terminal blocks.
- **Management:** RS232 Serial console.
- **System firmware:** Downloadable via programming cable (optional).
- **Indicators:**  
Status Led  
Data/Link Led  
Power Led
- **Dimensions / Weight:**  
4.49 x 3.94 x 0.89 in. (HxWxL).  
(114 x 100 x 22.5 mm).  
0.31 Lbs (0.140 Kg).
- **Power supply:**  
10 to 30 Volts DC.  
200 mA max.
- **Environmental:**  
Operating temperature: 23 to 149 °F (-5 to 65 °C).  
Storage temperature: -40 to 167 °F (-40 to 75 °C).
- **Optional accessories:** Programming cable.
- **Guarantee / Support:**  
1-year guarantee.  
Technical support included.



## ORDERING INFORMATION

| PART NUMBER         | SERIAL PORT<br>RS232 | DIGITAL |         |         |
|---------------------|----------------------|---------|---------|---------|
|                     |                      | INPUTS  | OUTPUTS | CONFIG. |
| SGW1-2044-1A-MB-DF1 | 2                    | 4       | 4       | ---     |

ISO 9001:2000



For technical support please contact: [support@exemys.com](mailto:support@exemys.com)

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